

A. S. McClure,

Glass Cutter.

N^o 44,331.

Patented Sep. 20, 1864.

Fig. 2.

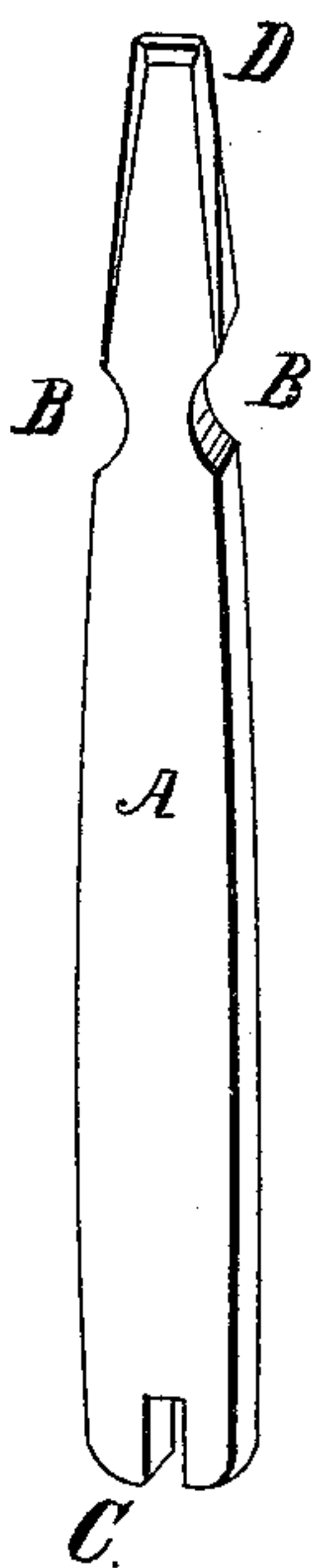
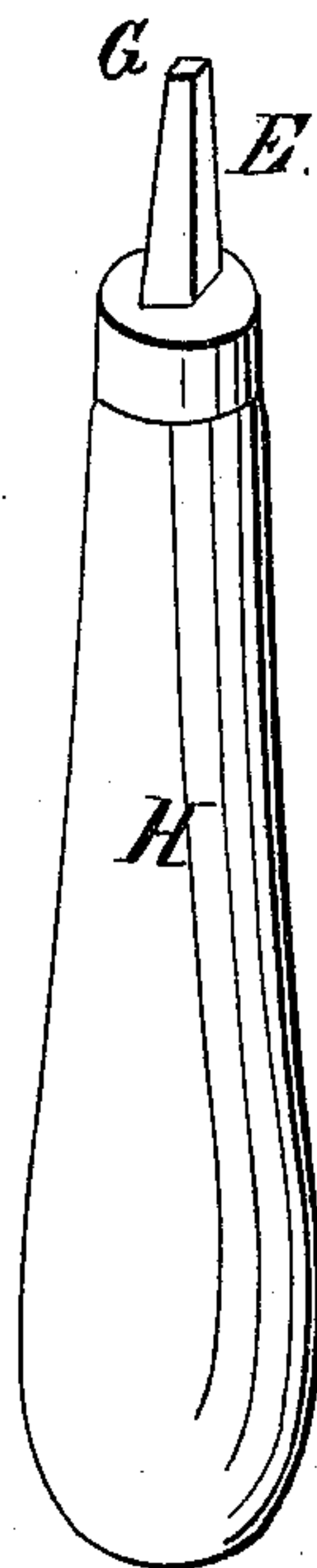


Fig. 1.



Witnesses:

Inventor:

L. Luchs *A. S. McClure by*
Franklin Cargill
Gilbert Bowles *his Attorney*

UNITED STATES PATENT OFFICE.

A. S. McCLURE, OF NEW BUFFALO, PENNSYLVANIA.

DEVICE FOR CUTTING GLASS.

Specification forming part of Letters Patent No. **44,331**, dated September 20, 1864.

To all whom it may concern :

Be it known that I, A. S. McCLURE, of New Buffalo, in the county of Perry, in the State of Pennsylvania, have invented a new and Improved Instrument for Cutting Glass; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings.

The nature of my invention consists in making glass-cutters of cast-steel by refining and tempering, which gives to the metal a superior qualification.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction.

Figure 1 represents the steel cutter with four edges or square points, as inserted in a handle. Fig. 2 represents a single-edge cutter without a handle.

A represents the shape of a one-edged steel glass-cutter with recesses B for the finger to have a good hold on it, and a jaw, C, at the lower end for the purpose of breaking off any portions of the glass as cut. The cutting-end D is tapered off similar to an ordinary screw-driver.

E represents a square cutter with four

edges, G, the instrument inserted in a handle, H.

My present invention answers the purpose of a diamond, and its cheapness is of importance to mechanics.

My new and improved mode of tempering and refining the steel for glass-cutters (which I have fully tested for one year past) is to add to the water that I temper in ten grains of crude niter and ten grains of zinc sulphate to each quart of water, and heat the steel in a charcoal-fire to a light cherry-red, then immerse suddenly, constantly shaking or moving it till cool. This makes a great improvement in the instrument over the former. It cuts better and lasts longer without sharpening. Besides, it gives it a superior polish that will not rust.

What I claim as my invention, and desire to secure by Letters Patent, is—

My steel glass-cutters as an article of manufacture, as herein constructed and described, and for the purpose set forth.

A. S. McCLURE.

Witnesses :

JOHN GAMET,

VALENTINE VARNIS.